

1

2

3

4

5

6

7

8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

REV. DESCRIPTION DATE APPROVED

A INCORPORATED ECN 02461 06-29-09 P. BRAVO

B INCORPORATED ECN 02660 AND 02823 04-20-10 P. BRAVO

C INCORPORATED ECN 02862, 02609, 03152, AND 03170 07-11-11 P. BRAVO

D INCORPORATED ECN 03496 AND 04135 10-14-13 P. BRAVO

E INCORPORATED ECN 04578, 05379, AND 05736 05-01-17 P. BRAVO

F INCORPORATED ECN 05938 02-22-18 P. BRAVO

G INCORPORATED ECN 06008 07-06-18 P. BRAVO

H INCORPORATED ECN 06365 08-29-19 P. BRAVO

J INCORPORATED ECN 06445 01-28-20 J. GARDINER

K INCORPORATED ECN 06463 03-12-20 J. GARDINER

PROTOTYPE REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED	CHANGE CODE	EFFECTIVITY	REVISED BY
SHEET 1 A3-2		ADDED SHEET 1 FOR PROTOTYPE REVISION TABLE F/N 36: P/N WAS 601.2587 IS MS16624-4037 F/N 35: P/N WAS 600.0741 IS NAS620C6 F/N 34: P/N WAS 601.2591 IS MS35275-211 F/N 33: P/N WAS 601.2939 IS MS28775-011 F/N 32: P/N WAS 601.2937 IS MS28775-008 F/N 31: P/N WAS 601.1084 IS NAS1611-006A F/N 30: P/N WAS 601.2936 IS MS28775-007 F/N 28: P/N WAS 601.2582 IS NAS1149C0663R					
A8-2 B1-2 B3-2		REMOVED MAT'L AND SPEC NOTES REVISED NOTES F/N 24: P/N WAS 645.7513 IS 650.6513 F/N 23: P/N WAS 645.7510 IS 650.6510 F/N 23: DESCRIPTION WAS BURST DISC RETAINER IS BURST DISC ADAPTER F/N 20: P/N WAS 601.2241 IS M83461/2-902 F/N 19: P/N WAS 600.0289 IS 654.6412 F/N 18: P/N WAS 600.0288 IS 654.6411 F/N 17: P/N WAS 600.0260 IS 654.6410 F/N 16: P/N WAS 645.7511 IS 650.6511					
		F/N 16: ADDED QUANTITY OF 1 FOR .5902 AND .5903 CONFIGURATIONS F/N 15: P/N WAS 645.7512 IS 650.6512 F/N 14: DELETED (REPLACED 600.0258 WITH 601.3739) F/N 13: P/N WAS 601.1567 IS MS28775-012 F/N 12: P/N WAS 601.3001 IS M83461/2-905					
C3-2 B3-3		F/N 12: ADDED QUANTITY OF 1 FOR ALL CONFIGURATIONS EXCEPT FOR .5901 AND .5914 F/N 11: P/N WAS 645.6401 IS 650.6301 F/N 6: P/N WAS 601.0262 IS MS19060-1012 ADDED F/NS 72, 73, 74 F/N 69: ADDED QUANTITY OF 1 FOR 645.5913 CONFIGURATION F/N 67: ADDED QUANTITY OF 1 FOR .5901-.5912 CONFIGURATIONS F/N 66: P/N WAS 601.1876 IS MS20995C20 F/N 66: QUANTIY WAS .5 FT IS A/R FOR ALL CONFIGURATIONS F/N 65: P/N WAS 645.7515 IS 650.6515 F/N 64: DELETED (REPLACED 601.3402 WITH M83461/2-904) F/N 63: P/N WAS 601.1090 IS M83461/2-906 F/N 62: P/N WAS 601.1088 IS M83461/2-904					
	PK1	F/N 62: REVISED QUANTITIES FOR ALL CONFIGURATIONS REMOVED MAT'L AND SPEC NOTES F/N 60: DELETED (REMOVED DECAL FROM ASSEMBLY) F/N 59: DELETED (REMOVED DECAL FROM ASSEMBLY) F/N 57: P/N WAS 601.0761 IS 601.2173 F/N 56: P/N WAS 600.0294 IS 654.6512 F/N 55: P/N WAS 601.1674 IS 654.6511 F/N 54: P/N WAS 601.2382 IS 654.6510 F/N 51: P/N WAS 601.1091 IS M83461/2-910 F/N 51: ADDED QUANTITY OF 1 FOR ALL CONFIGURATIONS F/N 47: P/N WAS 601.2940 IS M83461/2-908 F/N 46: P/N WAS 645.6402 IS 650.6302 F/N 45: P/N WAS 601.2946 IS MS35650-364 F/N 44: P/N WAS 645.6312 IS 650.6212 F/N 43: P/N WAS 645.6311 IS 650.6211 F/N 42: P/N WAS 645.6310 IS 650.6210 F/N 40: P/N WAS 601.2840 IS NAS1352C06-16 F/N 39: P/N WAS 601.2841 IS NAS1352C06-12 F/N 38: P/N WAS 601.2590 IS MS28775-022	03-23-21	J. GARDINER	MDI	NEXT ORDER	K. TAILOR
B8-3 C3-3		COMPLETELY REVISED SHEET COMPLETELY REVISED SHEET (SPLIT VIEWS BETWEEN THIS SHEET AND PREVIOUS SHEET) COMPLETELY REVISED SHEET ADDED NEW SHEET FOR EXPLODED VIEWS ADDED NEW SHEET FOR EXPLODED VIEWS ADDED NEW SHEET FOR EXPLODED VIEWS ADDED NEW SHEET FOR EXPLODED VIEWS					
D3-3							
SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10							

ORIGINAL DATE (MO-DA-YR) 01-22-07

DRAWN BY E. ANDERSSON CHECKER P. BRAVO

DRAWING APPROVAL P. BRAVO 01-22-07

CONTRACT No.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

DART AEROSPACE

APICAL INDUSTRIES, INC.
dba DART AEROSPACE

3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081
(760)-724-5300

VALVE ASSEMBLY

SIZE B CAGE CODE 07MZ6 DWG. NO. 645.5900 REV. PK1

SCALE NONE SHEET 1 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

1. ASSEMBLE IAW MPP-169
2. LASER ENGRAVE OR DOT MARK VALVE P/N, S/N, AND REVISION ONTO THE 645.6110 VALVE BODY IAW MPP-120
3. LASER ENGRAVE OR DOT MARK PORT POSITION CODE, IAW TABLE 2, ONTO THE 647.2910 SPRING CAP IAW MPP-120
4. REFER TO SHEETS 8-10 FOR CONFIGURATION SPECIFIC VIEWS
5. QTY (1) EXTRA M83461/2-910 O-RING REQUIRED FOR POST LEAKAGE TEST ASSEMBLY

1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	36	MS16624-4037	SNAP RING		
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	35	NAS620C6	WASHER		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	34	MS35275-211	SCREW		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	33	MS28775-011	O-RING		
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	32	MS28775-008	O-RING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	NAS1611-006A	O-RING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30	MS28775-007	O-RING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	29	651.9910	BAYONET		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28	NAS1149C0663R	WASHER		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	27	600.0318	PLUNGER		
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	26	601.1083	O-RING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25	600.0266	FUSIBLE PLUG		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	650.6513	THERMAL ADAPTER		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	23	650.6510	BURST DISC ADAPTER		
1	1	1	1				1	1	1				1	1	22	600.0248	SAFETY DISC		
			1	1	1				1	1	1				21	600.0250	SAFETY DISC RETAINER		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	M83461/2-902	O-RING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	654.6412	FILL PISTON FITTING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	654.6411	PLUG FITTING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	654.6410	FILL PORT		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	650.6511	FILL PORT ADAPTER		
		1							1	1	1	1	1	1	15	650.6512	GAUGE ADAPTER		
															14	DELETED			
3	3	3	1	3	3	1	3	3	1	3	3	1	3	3	13	MS28775-012	O-RING		
2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	12	M83461/2-905	O-RING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	650.6301	SWIVEL FITTING ASSEMBLY		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	600.0259	PUNCTURE DISC		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	645.6510	PUNCTURE DISC RETAINER		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	647.2910	SPRING CAP		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	647.3010	TRIGGER PISTON		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	MS19060-1012	TRIGGER BALL		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	645.7710	SHROUD		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	645.6910	PULL ROD		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	645.6810	PULL ROD HOUSING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	645.6210	BAYONET HOUSING		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	645.6110	VALVE BODY		
X																645.5915	VALVE ASSEMBLY -4 W/ THERMOMANOMETER		
	X															645.5914	VALVE ASSEMBLY -4		
		X														645.5913	VALVE ASSEMBLY -4 (6000 PSI)		
			X													645.5912	VALVE ASSEMBLY -8 LOW		
				X												645.5911	VALVE ASSEMBLY -6 LOW		
					X											645.5910	VALVE ASSEMBLY -4 LOW		
						X										645.5909	VALVE ASSEMBLY -8		
							X									645.5908	VALVE ASSEMBLY -6		
								X								645.5907	VALVE ASSEMBLY -4		
									X							645.5906	VALVE ASSEMBLY -8 LOW		
										X						645.5905	VALVE ASSEMBLY -6 LOW		
											X					645.5904	VALVE ASSEMBLY -4 LOW		
												X				645.5903	VALVE ASSEMBLY -8		
													X			645.5902	VALVE ASSEMBLY -6		
														X		645.5901	VALVE ASSEMBLY -4		
.5915	.5914	.5913	.5912	.5911	.5910	.5909	.5908	.5907	.5906	.5905	.5904	.5903	.5902	.5901	F/N	P/N	DESCRIPTION	MAT'L	SPEC

QTY
NEXT ASSY (S)
646.7400
646.7500
650.2300

ORIGINAL DATE
(MO-DA-YR) 01-22-07
DRAWN BY
E. ANDERSSON
CHECKER
P. BRAVO
DRAWING APPROVAL
P. BRAVO
01-22-07
CONTRACT No.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ± .5°

PARTS LIST

DART 3030 ENTERPRISE CT.,
AEROSPACE SUITE A
APICAL INDUSTRIES, INC. VISTA, CA. 92081
dba DART AEROSPACE (760)-724-5300

VALVE ASSEMBLY

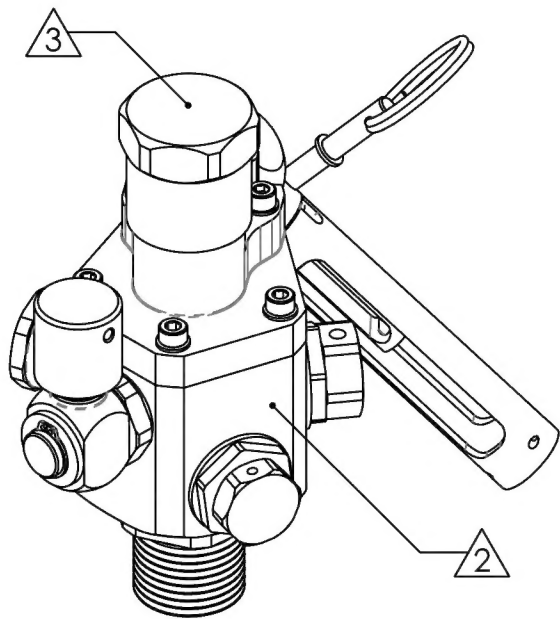
SIZE B CAGE CODE 07MZ6 DWG. NO. 645.5900 REV. PK1
SCALE NONE SHEET 2 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

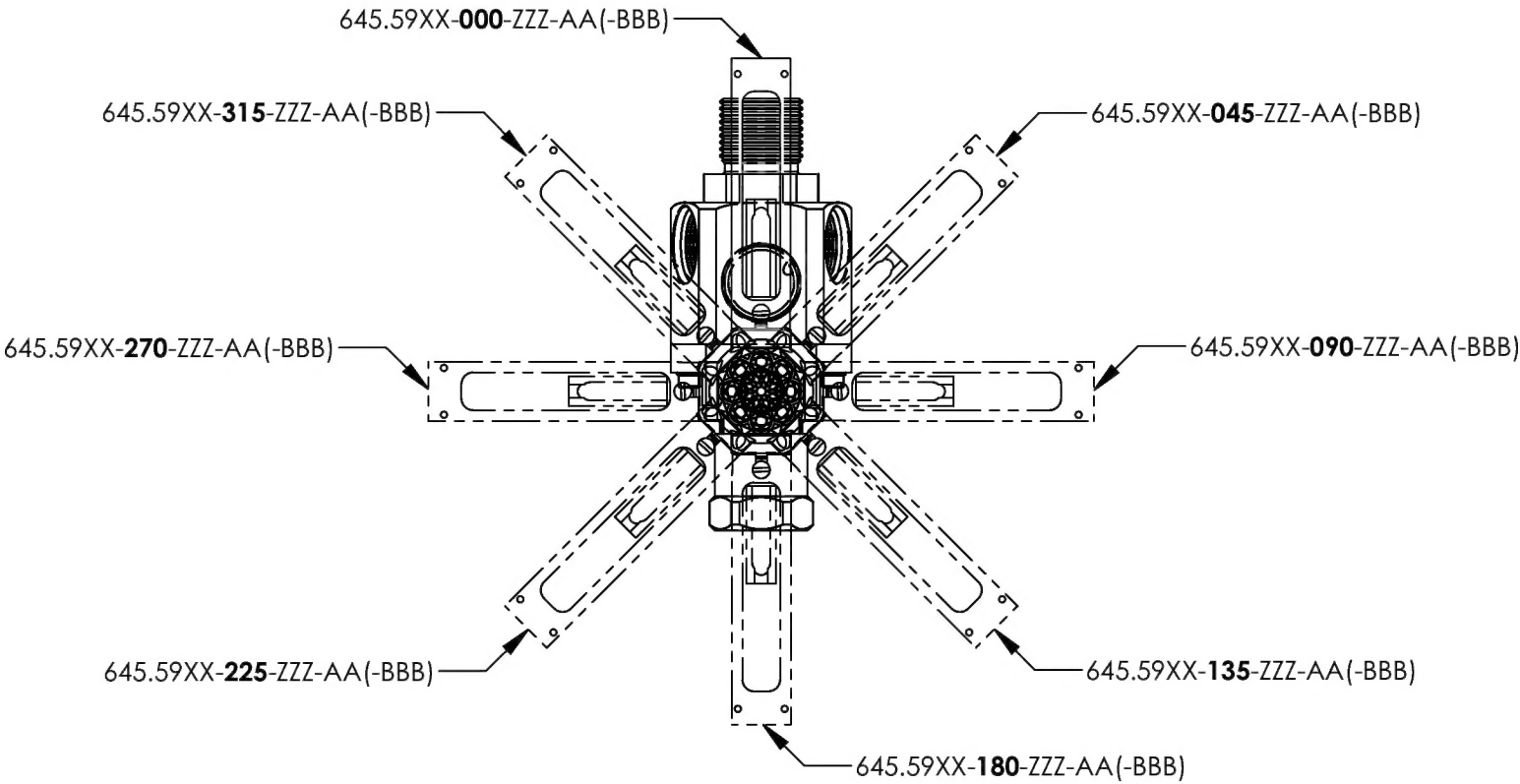
																PK1				
PK1	1															74	650.6520	ANGLED FITTING ADAPTER		
		1														73	601.4393	DUST CAP		
	1	1	1													72	654.6514	FLARELESS DIFFUSER CAP -4		
PK1	1															71	601.4369	THERMOMANOMETER		
	1															70	652.4801	90 DEGREE GAUGE ADAPTER		
	1	1	1													69	650.6216	BANJO -4 FLARELESS		
PK1	1	1	1													68	650.6410	SAFETY DISC RETAINER (6K)		
			1	1	1	1	1	1	1	1	1	1	1	1	1	67	601.3739	PRESSURE GAUGE		
	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	66	MS20995C20	SAFETY WIRE		
PK1				1	1	1	1	1	1	1	1	1	1	1	1	65	650.6515	EXTENDED GAUGE ADAPTER		
																64	DELETED			
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	63	M83461/2-906	O-RING		
PK1	2	1	1	3	1	1	3	1	1	3	1	1	3	1	1	62	M83461/2-904	O-RING		
				1	1	1				1	1	1				61	600.0249	SAFETY DISC		
																60	DELETED			
PK1																59	DELETED			
								1	1	1			1	1	1	58	601.2413	SAFETY DISC RETAINER		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	57	601.2173	SAFETY PIN		
PK1				1			1			1			1			56	654.6512	DIFFUSER CAP -8		
					1			1			1			1		55	654.6511	DIFFUSER CAP -6		
						1			1			1			1	54	654.6510	DIFFUSER CAP -4		
PK1	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	53	600.0903	LOCTITE RETAINING COMPOUND	LOCTITE 222MS	
	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	52	601.1928	TORQUE SEAL	F-925 SKYDROL RES.	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	51	M83461/2-910	O-RING		
PK1	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	50	601.2974	STAINLESS STEEL ANITSEIZE	MIL-A-907	
	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	49	600.1044	O-RING GREASE/LUBRICANT	KRYTOX 240AZ	
		1														48	601.4331	PRESSURE TRANSDUCER		
PK1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	47	M83461/2-908	O-RING		
				1			1			1			1			46	650.6302	SWIVEL FITTING		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	MS35650-364	NUT		
PK1				1			1			1			1			44	650.6212	BANJO -8		
					1			1			1			1		43	650.6211	BANJO -6		
						1			1			1			1	42	650.6210	BANJO -4		
PK1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	41	601.2953	O-RING		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	40	NAS1352C06-16	SOCKET HEAD CAP SCREW		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	39	NAS1352C06-12	SOCKET HEAD CAP SCREW		
PK1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38	MS28775-022	O-RING		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37	600.0339	BAYONET SPRING		
	.5915	.5914	.5913	.5912	.5911	.5910	.5909	.5908	.5907	.5906	.5905	.5904	.5903	.5902	.5901	F/N	P/N	DESCRIPTION	MAT'L	SPEC

QTY				PARTS LIST			
NEXT ASSY (\$)				ORIGINAL DATE (MO-DA-YR) 01-22-07			
646.7400				DRAWN BY E. ANDERSSON CHECKER P. BRAVO			
646.7500				DRAWING APPROVAL P. BRAVO 01-22-07			
650.2300				CONTRACT No.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°			
				SIZE B CAGE CODE 07MZ6 DWG. NO. 645.5900 REV. PK1			
				SCALE NONE SHEET 3 OF 10			

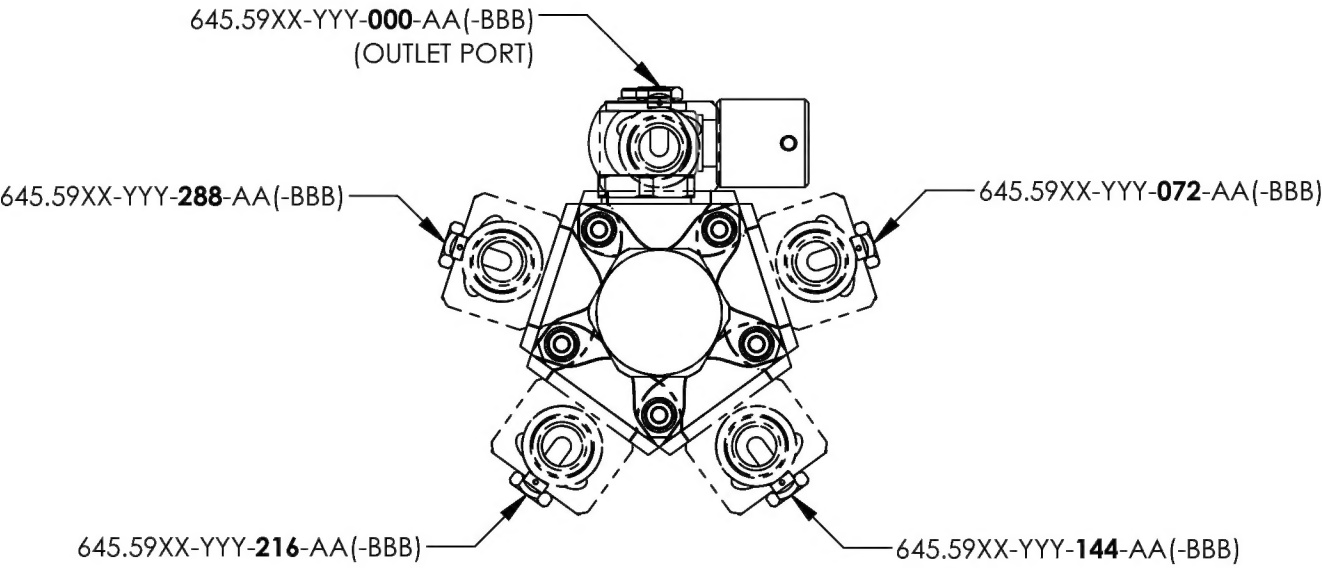
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



645.59XX-YYY-ZZZ-AA(-BBB)
(XX IS THE ROOT DRAWING NUMBER)
(REFER TO TABLE 1 FOR DASH NUMBER DESIGNATIONS)
(645.5901-045-144-08 SHOWN)



ANGLE OF PULL CABLE HOUSING
645.59XX-YYY-ZZZ-AA(-BBB)
(RELATIVE TO VALVE BODY)



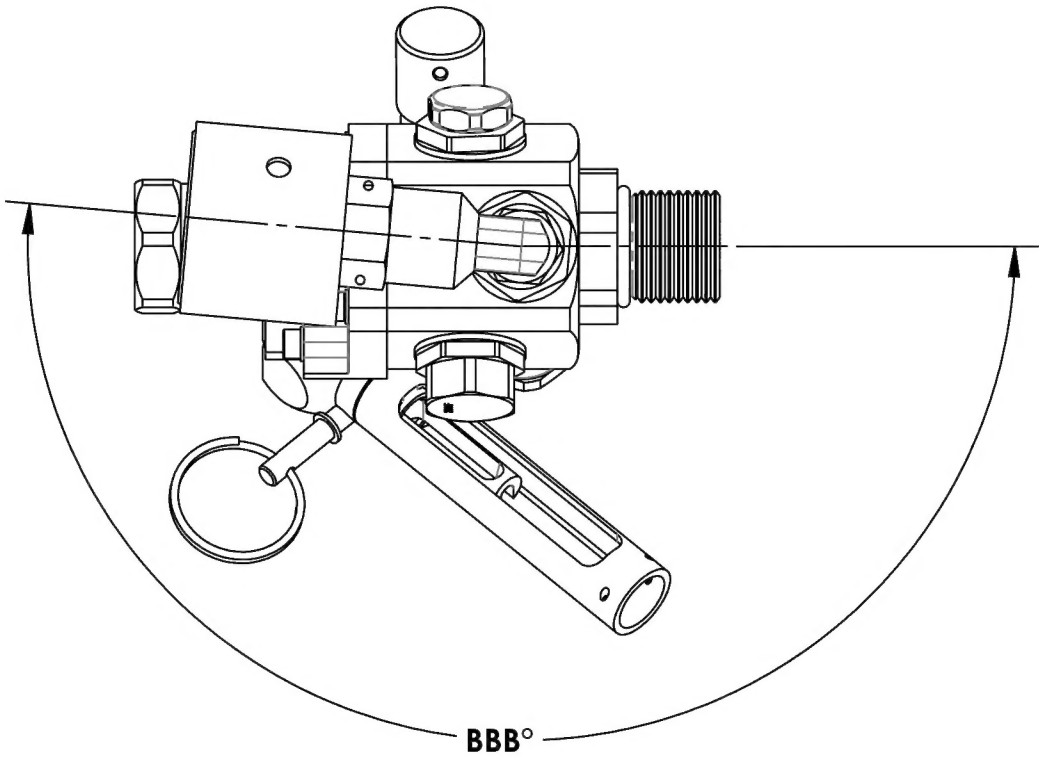
ANGLE OF BAYONET HOUSING
645.59XX-YYY-ZZZ-AA(-BBB)
(RELATIVE TO OUTLET PORT)

TABLE 1	
DASH NUMBER	DESIGNATION
YYY	ANGLE OF PULL CABLE HOUSING
ZZZ	ANGLE OF BAYONET HOUSING
AA	PORT POSITION CODE
BBB	ANGLE OF THERMOMANOMETER (APPLICABLE TO 645.5915 CONFIGURATION ONLY)

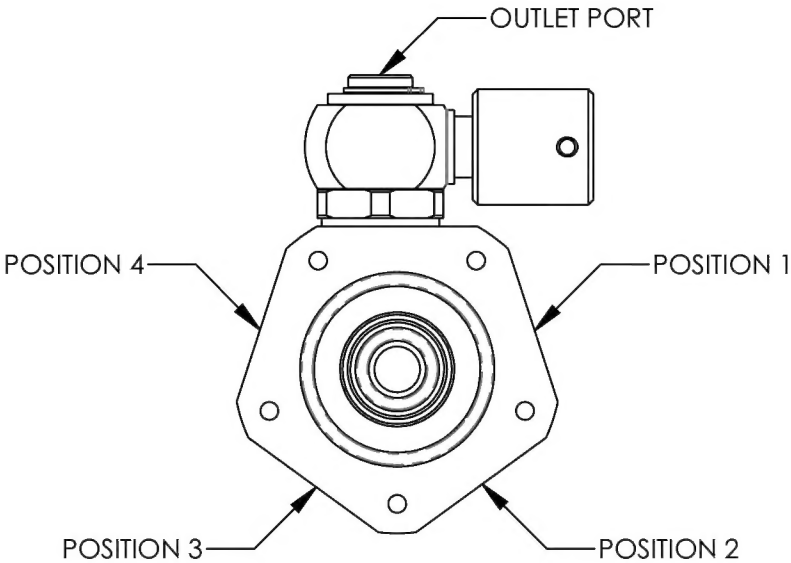
ORIGINAL DATE (MO-DA-YR) 01-22-07		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300		
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO			
DRAWING APPROVAL P. BRAVO 01-22-07				
CONTRACT No.		VALVE ASSEMBLY		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B 07MZ6	DWG. NO. 645.5900	REV. PK1
SCALE NONE		SHEET 4 OF 10		

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.


TABLE 2				
PORT POSITION CODE (AA)	POSITION 1	POSITION 2	POSITION 3	POSITION 4
01	GAUGE	FILL FITTING	BURST	THERMAL
02	GAUGE	FILL FITTING	THERMAL	BURST
03	GAUGE	THERMAL	BURST	FILL FITTING
04	GAUGE	THERMAL	FILL FITTING	BURST
05	GAUGE	BURST	THERMAL	FILL FITTING
06	GAUGE	BURST	FILL FITTING	THERMAL
07	FILL FITTING	GAUGE	BURST	THERMAL
08	FILL FITTING	GAUGE	THERMAL	BURST
09	FILL FITTING	THERMAL	BURST	GAUGE
10	FILL FITTING	THERMAL	GAUGE	BURST
11	FILL FITTING	BURST	THERMAL	GAUGE
12	FILL FITTING	BURST	GAUGE	THERMAL
13	THERMAL	FILL FITTING	BURST	GAUGE
14	THERMAL	FILL FITTING	GAUGE	BURST
15	THERMAL	BURST	FILL FITTING	GAUGE
16	THERMAL	BURST	GAUGE	FILL FITTING
17	THERMAL	GAUGE	BURST	FILL FITTING
18	THERMAL	GAUGE	FILL FITTING	BURST
19	BURST	FILL FITTING	GAUGE	THERMAL
20	BURST	FILL FITTING	THERMAL	GAUGE
21	BURST	THERMAL	GAUGE	FILL FITTING
22	BURST	THERMAL	FILL FITTING	GAUGE
23	BURST	GAUGE	FILL FITTING	THERMAL
24	BURST	GAUGE	THERMAL	FILL FITTING




ANGLE OF THERMOMANOMETER
645.5915-YYY-ZZZ-AA-BBB
(RELATIVE TO VALVE BODY)



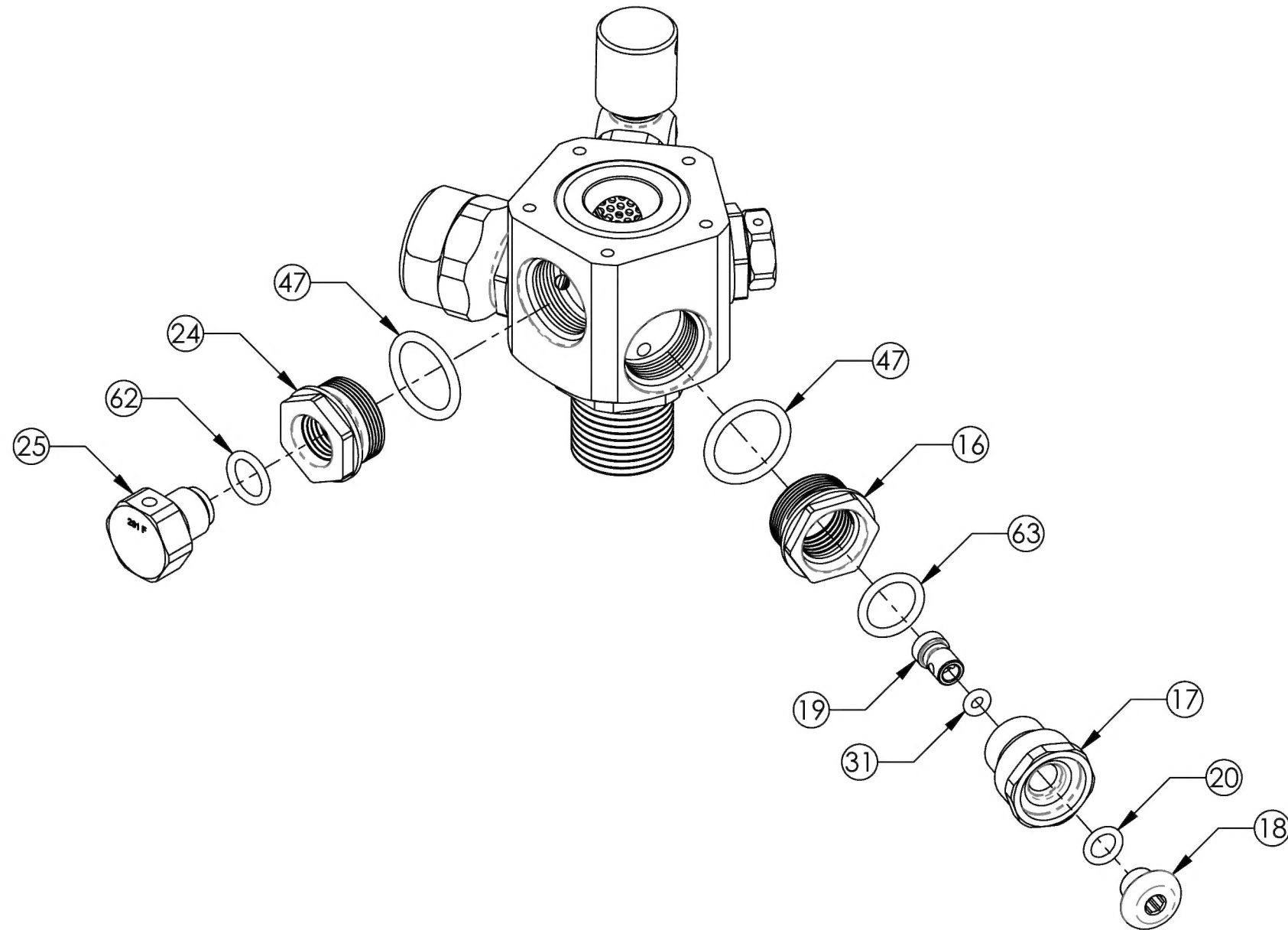
PORT POSITION CODE
645.59XX-YYY-ZZZ-AA(-BBB)
(REFER TO TABLE 2 FOR PORT POSITION CODES)
(RELATIVE TO OUTLET PORT)

ORIGINAL DATE (MO-DA-YR) 01-22-07		 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 01-22-07					
CONTRACT No.		VALVE ASSEMBLY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 645.5900	REV. PK1
		SCALE NONE		SHEET 5 OF 10	



ORIGINAL DATE (MO-DA-YR)	01-22-07	 DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY	CHECKER				
E. ANDERSSON	P. BRAVO				
DRAWING APPROVAL P. BRAVO 01-22-07					
CONTRACT NO.		VALVE ASSEMBLY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES 1/2°, 3/4°					
SIZE	CAGE CODE	DWG. NO.		REV.	
B	07MZ6	645.5900		PK1	
SCALE NONE			SHEET 6 OF 10		

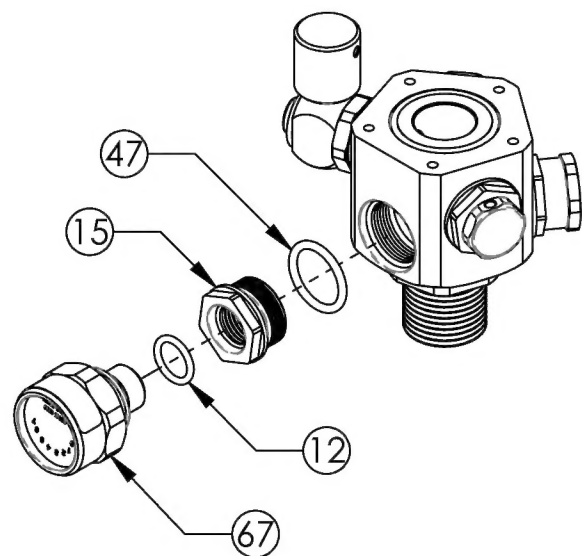
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



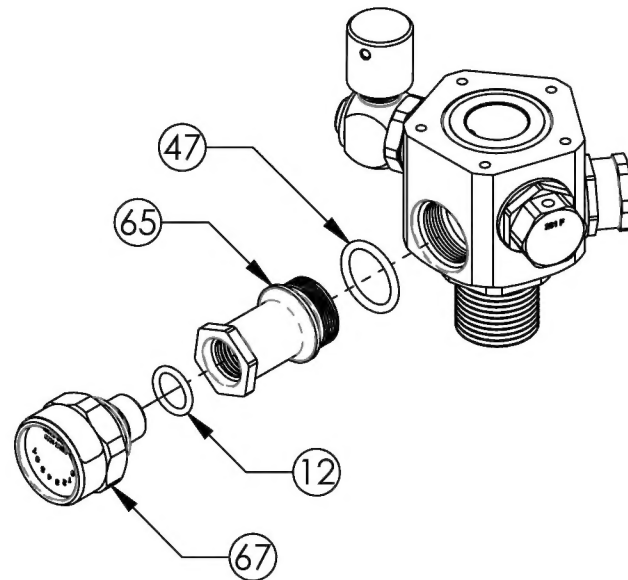
TYPICAL FILL FITTING AND FUSIBLE PLUG INSTALLTION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(ALL CONFIGURATIONS)

ORIGINAL DATE (MO-DA-YR) 01-22-07		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 01-22-07		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		VALVE ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. PK1
		CAGE CODE 07MZ6	DWG. NO. 645.5900
		SCALE NONE	SHEET 7 OF 10

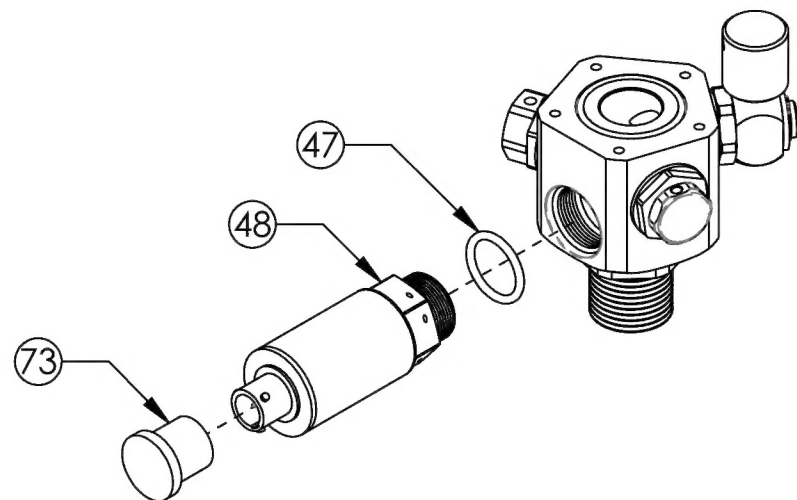
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



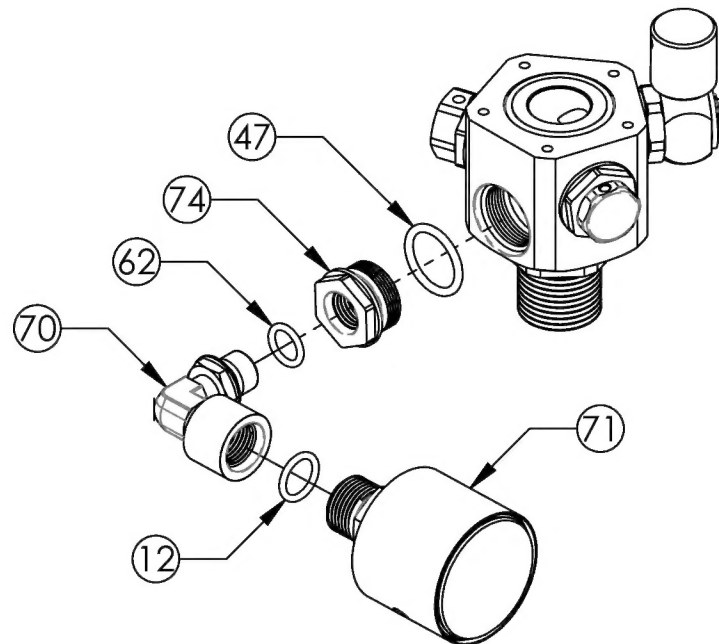
TYPICAL GAUGE INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5901-645.5906, AND 645.5913 CONFIGURATIONS)



TYPICAL EXTENDED GAUGE INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5907-645.5912 CONFIGURATIONS)



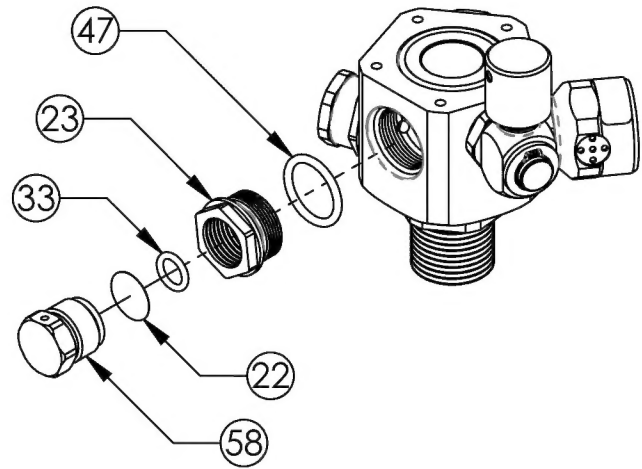
PRESSURE TRANSDUCER INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5914 CONFIGURATION)



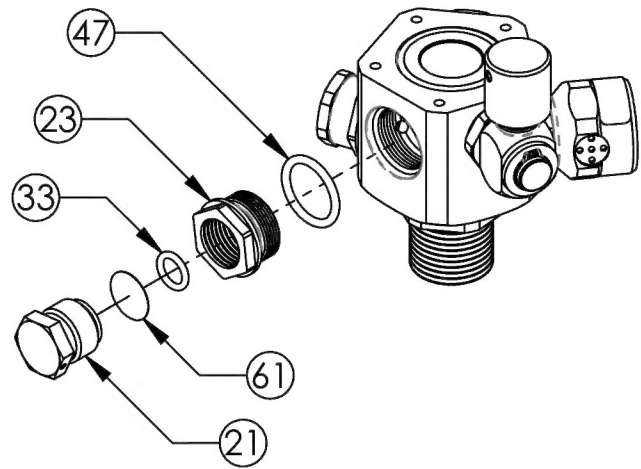
THERMOMANOMETER INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5915 CONFIGURATION)

ORIGINAL DATE (MO-DA-YR) 01-22-07		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 01-22-07		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		VALVE ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. PK1
		CAGE CODE 07MZ6	DWG. NO. 645.5900
		SCALE NONE	SHEET 8 OF 10

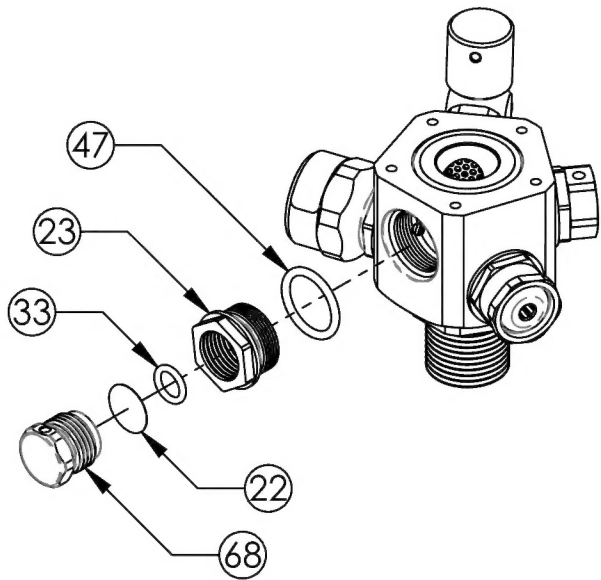
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



TYPICAL 601.2413 SAFETY DISC RETAINER INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5901-645.5903 AND 645.5907-645.5909 CONFIGURATIONS)



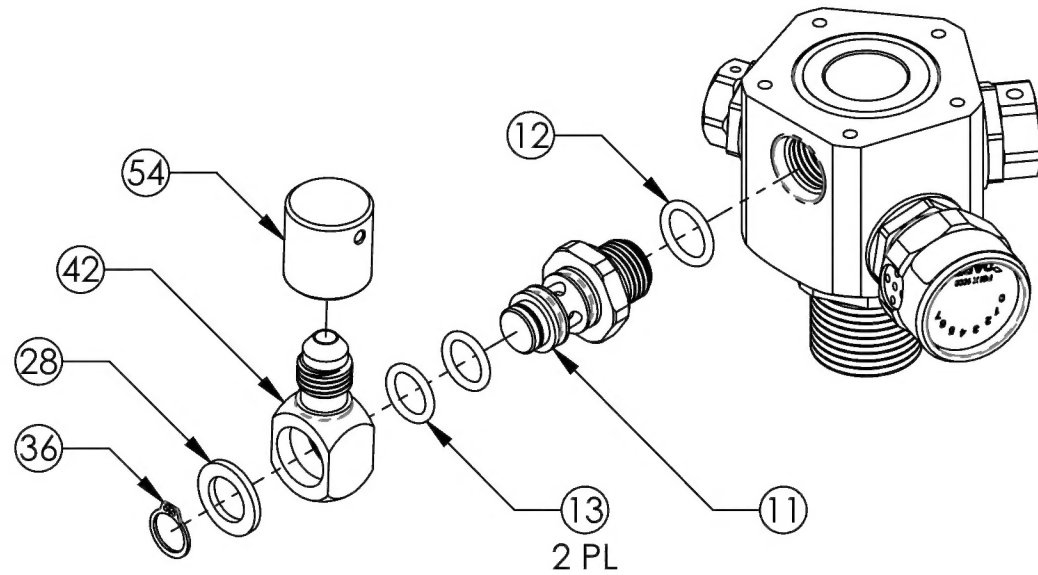
TYPICAL 600.0250 SAFETY DISC RETAINER INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5904-645.5906 AND 645.5910-645.5912 CONFIGURATIONS)



TYPICAL 650.6410 SAFETY DISC RETAINER INSTALLATION
(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5913-645.5915 CONFIGURATIONS)

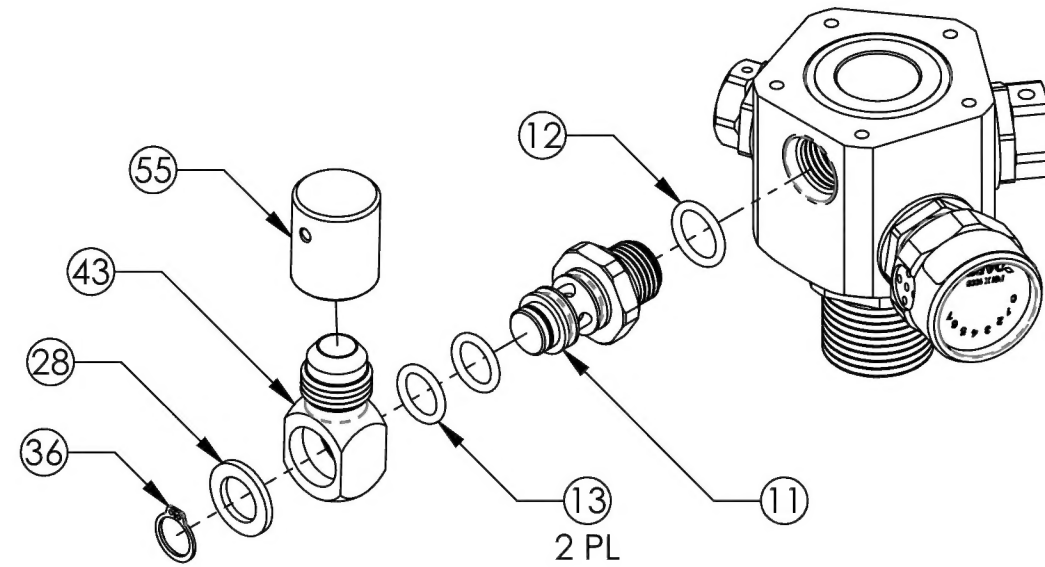
ORIGINAL DATE (MO-DA-YR) 01-22-07		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 01-22-07		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		VALVE ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B 07MZ6	REV. PK1
		DWG. NO. 645.5900	
		SCALE NONE	SHEET 9 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



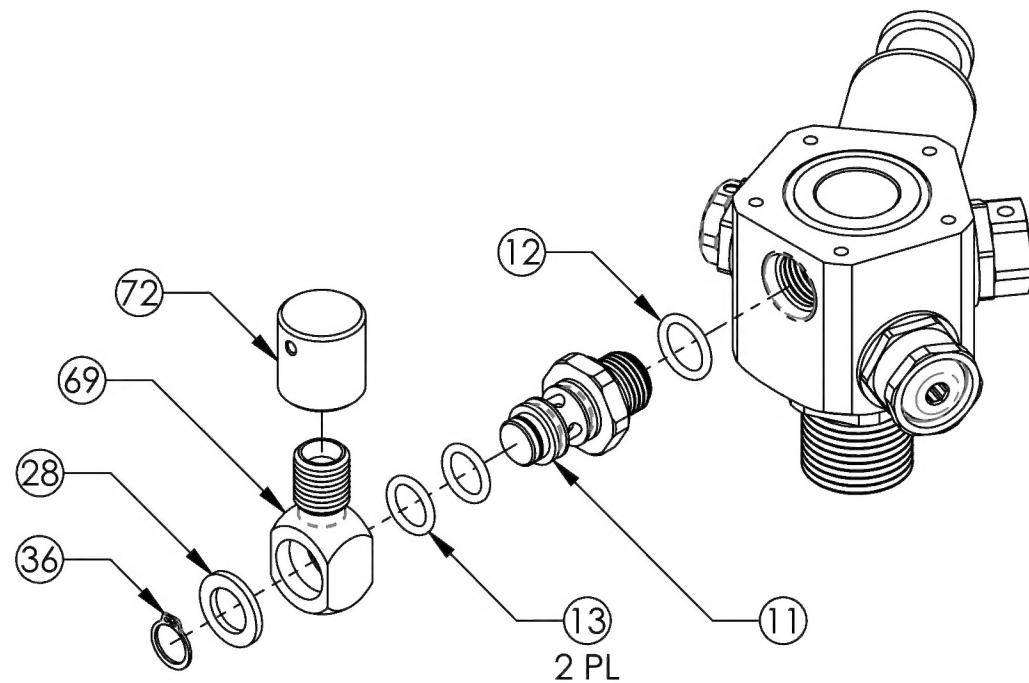
TYPICAL -4 OUTLET INSTALLATION

(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5901/.5904/.5907/.5910 CONFIGURATIONS)



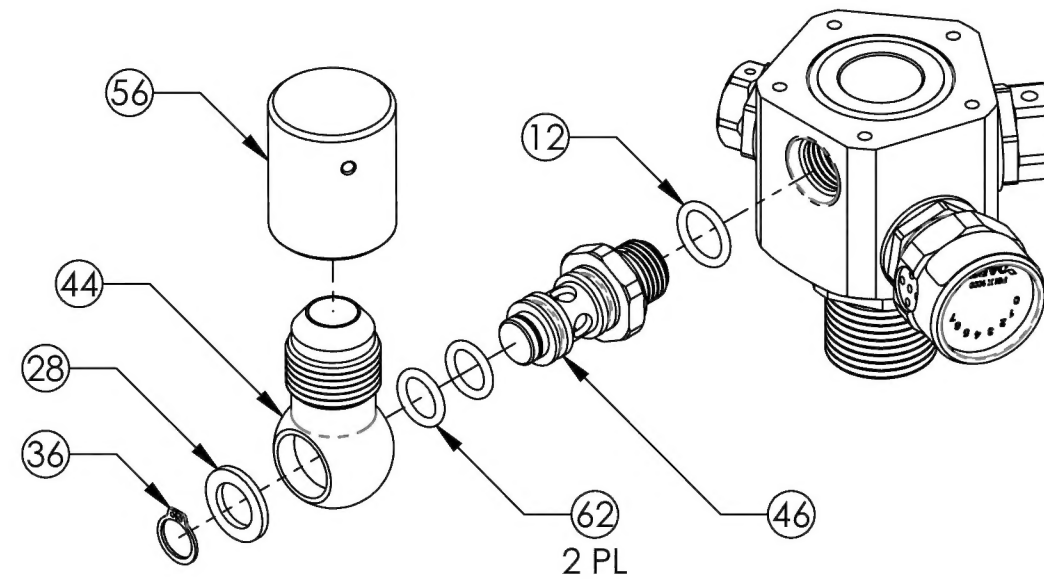
TYPICAL -6 OUTLET INSTALLATION

(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5902/.5905/.5908/.5911 CONFIGURATIONS)



TYPICAL -4 FLARELESS OUTLET INSTALLATION

(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5913-645.5915 CONFIGURATIONS)



TYPICAL -8 OUTLET INSTALLATION

(INTERNAL AND PULL CABLE COMPONENTS HIDDEN FOR CLARITY)
(APPLICABLE TO 645.5903/.5906/.5909/.5912 CONFIGURATIONS)

ORIGINAL DATE (MO-DA-YR) 01-22-07		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 01-22-07		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		VALVE ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B 07MZ6	REV. PK1
		DWG. NO. 645.5900	SHEET 10 OF 10
		SCALE NONE	